

ILLINOIS HIGHWAY INFORMATION SYSTEM

ROADWAY INFORMATION AND PROCEDURE MANUAL

ITEM NAME SURFACE TYPE					ITEM NO. 18
					PAGE 1 of 6
ENTERED BY	STATE	NON-STATE	HPMS	MUNI	EFFECTIVE DATE
District Program Development	YES	YES	YES	YES	11/01/00
UPDATE REPORTS	UPDATE SCREENS				INQUIRY SCREENS
(14) Physical Characteristics	(14) Phys Char - Surf & Shld				(64)Phys Char - Surf & Shld

DESCRIPTION AND PURPOSE OF ITEM

This item indicates the driving surface type along with the underlying pavement structure of the through lanes of a highway.

This information is used for mapping and to organize highway data by type of surface.

This item can be determined from construction plans or, if plans are unavailable, field review. If in question, contact the district Bureau of Program Development.

Note: This item is recorded on IRIS and transferred, by computer, to IRRIS "Is the Highway Paved" (Item 62).

CODE AND SCREEN ENTRY INSTRUCTIONS

A 3-digit numeric code.

Enter the appropriate code in its entirety.

<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
<div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> </div> <div style="display: flex; align-items: center;"> * <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> </div>	010	<u>Unimproved</u> – A road using the natural surface and maintained to permit bare passability for motor vehicles, but not conforming to the requirements for a graded and drained earth road. The road may have been bladed and minor improvements may have been made locally.
<div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> </div> <div style="display: flex; align-items: center;"> * <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; width: 100px; margin-bottom: 2px;"></div> </div>	020	<u>Graded and Drained</u> – A road of natural earth aligned and graded to permit reasonably convenient use by motor vehicles and with drainage systems (natural and artificial) sufficient to prevent serious impairment of the road by normal surface water, and with or without dust palliative treatment or a continuous course of special borrow material to protect the new roadbed temporarily and to facilitate immediate traffic service.

* Note: Indicates Old Map Symbol

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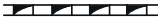


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CODE AND SCREEN ENTRY INSTRUCTIONS

<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
 * 	---	<p><u>Soil-Surfaced</u> – A road of natural soil, the surface of which has been improved to provide more adequate traffic service by the addition of (1) a course of mixed soil having A-1 or A-2 characteristics, such as sand-clay, soft slate, or topsoil, or (2) an admixture such as bituminous material, Portland cement, calcium chloride, or fine granular material (sand or similar material).</p> <p>100 <u>Without dust palliative treatment</u></p> <p>110 <u>With dust palliative (oiled)</u> – A graded and drained natural earth or soil surfaced road (100), the surface of which has been improved to provide more adequate traffic service by the addition of road oil. Also includes surfaces which have had sand or chips added to the surface for blotting purposes.</p>
 * 	---	<p><u>Gravel or Stone</u> – A road, the surface of which consists of gravel, broken stone, slag, chert, caliche, iron ore, shale, chat, disintegrated rock or granite, or other similar fragmental material (more coarse than sand) with or without sand-clay, bituminous chemical stabilizing admixture or light penetrations of oil or chemical to serve as a dust palliative.</p> <p>200 <u>Without dust palliative treatment</u></p> <p>210 <u>With dust palliative treatment</u> – On an oil-earth road (110) to which aggregate has been added to the extent where the surface has the characteristics of a gravel road.</p>
 * 	300	<p><u>Bituminous Surface-Treated</u> (low type bituminous) – An earth road, a soil-surfaced road, or a gravel or stone road to which has been added by any process a bituminous surface course with or without a seal coat, the total compacted thickness of which is less than 1 inch. Seal coats include those known as chip seals, drag seals, plantmix seals, and rock seals.</p>

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Map Symbol

CODE AND SCREEN ENTRY INSTRUCTIONS

	<u>Code</u>	<u>Description</u>
		
* 	400	<u>Mixed Bituminous (low type bituminous)</u> – A road, the surface course of which is 1 inch or more in compacted thickness composed of gravel, stone, sand, or similar material, mixed with bituminous material under partial control as to grading proportions. Low type (less than 7 inches combined thickness surface and base).
	410	<u>Bituminous Penetration (low type bituminous)</u> – A road, the surface course of which is 1 inch or more in compacted thickness composed of gravel, stone, sand, or similar material bound with bituminous material introduced by downward or upward penetration. <u>Low type</u> (less than 7 inches combined thickness surface and base).
	--	<u>High Type Bituminous (flexible base)</u> – Mixed bituminous or bituminous penetration road (Overlay 1 inch or more in compacted thickness) on a <u>FLEXIBLE</u> base with combined surface and base thickness 7 inches or more. Includes any bituminous concrete, sheet asphalt, or rock asphalt.
* 		
	500	<u>Bituminous Surface Treated</u> – Mixed bituminous, or bituminous penetration.
	501	<u>Over PCC - Rubblized - Reinforcement unknown</u>
	510	<u>Over PCC - Rubblized - No reinforcement</u>
	520	<u>Over PCC - Rubblized - Partial reinforcement</u>
	525	<u>Over PCC - Rubblized - With No or Partial Reinforcement - But having Hinged Joints</u>
	530	<u>Over PCC - Rubblized - Full reinforcement</u>
	540	<u>Over PCC - Rubblized - Continuous reinforcement</u>
	550	<u>Bituminous Concrete (other than Class I), Sheet Asphalt or Rock Asphalt</u>
	560	<u>Bituminous Concrete Pavement (Full-Depth)</u> – One or more Class I bituminous concrete binder and surface courses constructed on an improved subgrade. Minimum total thickness during the contract of 6 inches of bituminous concrete.

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Code

Description


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--- High Type Bituminous (rigid base) – Any bituminous surface treatment (Overlay 1 inch or more in compacted thickness) on any RIGID base (PCC pavement and brick) with a combined surface and base thickness of 7 inches or more. Includes any bituminous concrete, sheet asphalt, or rock asphalt.

600 Over PCC - Reinforcement unknown

610 Over PCC - No reinforcement

615 Over PCC - No reinforcement but having short panels and dowels

620 Over PCC - Partial reinforcement

625 Over PCC - With No or Partial Reinforcement - But having Hinged Joints

630 Over PCC - Full reinforcement

640 Over PCC - Continuous reinforcement

650 Over Brick, Block, Steel, or similar material


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--- Portland Cement Concrete (PCC) – A road consisting of Portland cement concrete with no bituminous overlay.

700 Reinforcement unknown

710 No reinforcement

720 Partial reinforcement

725 With No or Partial reinforcement but having Hinged Joints

730 Full reinforcement

740 Continuous reinforcement

760 Non-Reinforced over PCC - Reinforcement unknown

* Note: Indicates Old Map Symbol

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762 Reinforced over PCC - Reinforcement unknown

765 Non-Reinforced over PCC - No reinforcement

767 Reinforced over PCC - No reinforcement

770 Non-Reinforced over PCC - Partial reinforcement

772 Reinforced over PCC - Partial reinforcement

775 Non-Reinforced over PCC - With No or Partial reinforcement but having Hinged Joints

777 Reinforced over PCC - With No or Partial reinforcement but having Hinged Joints

780 Non-Reinforced over PCC - Full reinforcement

782 Reinforced over PCC - Full reinforcement

790 Non-Reinforced over PCC - Continuous reinforcement

792 Reinforced over PCC - Continuous reinforcement

NOTE: Reinforcement Definitions:

NONE – No reinforcing steel. (Joint tie-rods, dowels & load transfer devices are not considered as reinforcing steel).

PARTIAL – Under 30 pounds of reinforcing steel per 100 square feet. (Including marginal and corner reinforcement).

HINGED JOINTS – A sawed and sealed joint which is held closed by deformed reinforcing bars and intended to preclude mid-panel cracks with a maintainable joint.

FULL – Over 30 pounds of reinforcing steel per 100 square feet.

CONTINUOUS – Continuous longitudinal reinforcement achieved by lapping the reinforcing steel.


* Note: Indicates Old Map Symbols

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<u>Map Symbol</u>	<u>Code</u>	<u>Description</u>
* 	800	<u>Brick, Block or Other</u> – A road consisting of paving brick, stone, asphalt, wood, or other block. Also includes steel or wood with or without a bituminous wearing surface less than 1 inch in compacted thickness.

* Note: Indicates Old Map Symbols

Variable --- Combination Type – A road on which the wearing surface consists of two or more individual types, each being of such depth as to be classed logically as a part of the traffic-bearing road surface rather than as surfaced shoulders.

Digits
1 2 3

- 9 - - The FIRST digit (always code "9") indicates combination type
- 9 0 - The SECOND digit indicates the HIGHEST type comprising a combination type road
- 9 - 0 The THIRD digit indicates the NEXT HIGHEST type comprising a combination type road

The codes used for digits 2 and 3 are as follows:

- 0 – Unimproved or Graded and Drained
- 1 – Soil-Surfaced
- 2 – Gravel or stone
- 3 – Low Type Bituminous - Surface-Treated
- 4 – Low Type Bituminous - Mixed or Penetration
- 5 – High Type Bituminous - Flexible Base
- 6 – High Type Bituminous - Rigid Base
- 7 – Portland Cement Concrete
- 8 – Brick, Block or Other

Note: Combination Surface Types must not be recorded to correlate to Key Route Direction-of-Inventory. IRIS is designed to display information using non-Key Route alignments, therefore, assigning values base on Key Route causes those values to be incorrect for other systems.